

# MODERN PLASTICS

## INDEX TO VOLUME 20

SEPTEMBER-1942 TO AUGUST-1943

MODERN PLASTICS, INC., 122 E. 42ND ST., NEW YORK 17, N. Y.

## GENERAL INDEX OF TITLES

ARTICLE	Month	Page	Month	Page
<b>A</b>			<b>F</b>	
Acid- and alkali-resistance of plastics.....	December	91	Fabrication of polystyrene.....	November 79
Advances in plastics during 1942.....	January	85	Federal specifications.....	November 118
Air Corps flashlight.....	May	63	Filing flash and fins.....	May 88
Aircraft applications of plastics.....	July	89	First aid carrier.....	January 53
Aircraft from West Coast timberlands.....	January	68	The first year of war—and the next.....	January 43
Allyl-type cast resins and laminates.....	June	101	Fittings for the thunderbolt.....	June 72
American Chemical Society meeting.....	October	98	Floating on air.....	December 70
American Chemical Society meeting.....	May	98	Flying flivver garage.....	February 47
Annual spring conference.....	June	55	Forming and repairing acrylic plastics.....	December 8
Arming the civilian.....	May	69	Foundation of production.....	September 6
Army astro domes.....	February	56	Fountain fixtures in the front lines.....	December 58
Army foot tubs.....	June	82	Function of postwar research, The.....	July 70
Army gets new buttons, The.....	December	43	Future of product design.....	June 76
Army's auxiliary booster tube, The.....	October	65	Future of the injection industry, The.....	August 90
<b>B</b>			<b>G</b>	
Bagasse molding compounds.....	November	64	Game that founded an industry, A.....	July 71
Basic physical properties of laminates.....	August	91	Gasket material.....	May 78
Behavior of plastics under vibrations.....	November	83	Gliders from the Wolverine state.....	April 62
Birth of an Army canteen.....	March	71	Goodyear research laboratory dedicated.....	July 120
Blowing process for thermoplastics, A.....	December	46	Grinding and machining cast resins.....	September 76
Boonton gets the Army-Navy "E".....	December	124		
Boxes for bullets.....	May	59		
British plan for furniture, A.....	April	70		
<b>C</b>			<b>H</b>	
Calculation of a modulus of impact.....	September	88	Handful of power, A.....	July 55
Campaign for war business.....	September	37	Handling thermoplastic materials.....	April 80
Canada's plastics industry in wartime.....	March	76	Hardwood pitch extender.....	November 112
Case history of a register.....	November	71	Heating by shortwave.....	October 79
Chemical resistance of laminates.....	July	80	Heatronic molding.....	March 87
Civilian incendiary bomb extinguisher.....	December	73	Hot wings and cold set resins.....	September 52
Cold molding impact material preforms.....	November	78	Housewife's helper.....	July 67
Cooperation—Industry's job today.....	November	44	How plastics have gone to war.....	January insert
Control sheaves for continuous take-ups.....	March	94	Hydraulics in transfer molding.....	June 88
Covering binocular bodies.....	October	50	Hyatt, John Wesley, Award for 1942.....	July 56
Cups for crude rubber.....	September	61		
Custom converter.....	June	51		
<b>D</b>			<b>I</b>	
Defense training in plastics.....	December	120	Ignition points of plastic materials.....	February 88
Design for tomorrow.....	March	92	Impact-resistant aircraft windshields.....	March 107
Design fundamentals for phenolics.....	December	77	Impact strength of plastic sheet.....	October 85
Design suggestions for molded phenolics.....	June	90	Impact testing of plastics.....	July 85
Dimout—visibility unlimited.....	September	60	Improved heat-resistant methacrylate.....	June 98
Disappearing Marine, The.....	June	68	Injection molded tag holders.....	April 67
Down-East handwheels for destroyers.....	August	61	Injection molded thermosetting parts.....	November 41
Drop-hammer, hydraulic press punches.....	February	68	Insulation aboard U. S. Navy vessels.....	October 45
			Insulation for Wheatstone bridges.....	April 79
<b>E</b>			<b>K</b>	
Economics of automatic molding, The.....	November	90	Keep your engine dry.....	May 89
Editor's mail box.....	January	124	Keyboard for color.....	February 57
Education for peacetime performance.....	May	62		
Effects of continuous heat on phenolics.....	February	79		
Elastic plastics for war production.....	December	48		
Electroplating masks.....	March	78		
Engineering properties of plastics.....	June	95		
Engines have brains.....	July	51		
Expendable hypodermic syringe.....	April	55		
Extruded collapsible tube.....	November	58		
Extruded saran pipe for industrial plants.....	January	60		
			<b>L</b>	
			Labels for leathernecks.....	April 57
			Labor standards in the plastics industry.....	April 56
			Laboratory for aircraft acrylics.....	May 118
			Laminated phenolic bearings.....	November 76
			Laminated plastics from paper.....	February 112
			Lights for baled-out bales.....	February 45

ARTICLE	Month	Page
Lights that save lives.....	December	53
Lignin-enriched filler.....	September	64
Liquid phenolic resins for tooling.....	July	65
London letter.....	September	112
London letter.....	December	126
London letter.....	January	122
London letter.....	March	134
London letter.....	May	126
Long-time tension test for plastics.....	March	106
Low pressure laminates for aircraft.....	January	54
Low pressure laminating.....	September	45
Low pressure molding of laminates.....	August	57

## M

Machining acrylic plastics.....	October	72
Machining laminated phenolics.....	May	92
Mar resistance of plastics.....	September	79
Mechanical properties of plastics.....	April	87
Mechanical tests for cellulose acetate.....	March	99
Meeting of A.S.T.M. Committee D-20.....	July	94
Methacrylate disk warns of ice formation.....	December	47
Methacrylate resins in surgery.....	September	56
Modeling postwar motor car bodies.....	February	50
Modern designs from Chicago.....	December	62
Modern plumbing fixtures.....	March	84
Molded parts for civilian gas mask.....	February	63
Molded plastic-plywood in aircraft.....	February	83
Molded valves for oil well pumps.....	April	83
Molding a bomb recorder frame.....	January	74
Molding a one-piece gage face.....	September	73
Molding an airtight meter.....	November	51
Molding curved plastic-plywood.....	August	73
Molding the Thunderer.....	September	43
Molding vinyl copolymer dentures.....	August	71
Molding with non-critical materials.....	November	60
Molding with radio frequency.....	May	83
Mopping up with thermoplastics.....	February	59

## N

New forms for nylon.....	August	64
New partnership is formed, A.....	April	53
New plasticizers for vinyl resins & cellulose esters.....	May	95
New thermosetting compounds.....	October	88
New uses for phenolic resin board.....	January	56
New warplanes for the United Nations.....	March	61
Nylon fleece.....	December	59

## O

Old light in the new dark.....	October	64
One-piece assembly device.....	October	78

## P

Paper laminates for molding.....	March	91
Phenolic resin-pulp preforms.....	July	76
Photolithographic printing plates.....	July	62
Planes of paper.....	December	82
Plasticizers.....	November	89
Plastic-bonded cotton fiber.....	May	100
Plastics Digest.....	September	90
Plastics Digest.....	October	102
Plastics Digest.....	November	96
Plastics Digest.....	December	98
Plastics Digest.....	January	100
Plastics Digest.....	February	90
Plastics Digest.....	March	112
Plastics Digest.....	April	104
Plastics Digest.....	May	108
Plastics Digest.....	June	108
Plastics Digest.....	July	98
Plastics Digest.....	August	110
Plastics from hydrolyzed lignocellulose.....	October	91
Plastics from redwoods.....	July	91
Plastics in Review.....	September	58
Plastics in Review.....	October	62
Plastics in Review.....	November	56
Plastics in Review.....	December	68
Plastics in Review.....	January	66
Plastics in Review.....	February	60
Plastics in Review.....	March	82
Plastics in Review.....	April	68
Plastics in Review.....	May	76
Plastics in Review.....	June	78
Plastics in Review.....	July	68
Plastics in Review.....	August	68
Plastics Prognosis.....	May	82
Plastics Statistics for 1941.....	September	86
Plastics Technical Committees in the U. S.....	August	105
Polystyrene for wartime electronics.....	August	80
Post-forming thermoforming products.....	August	70
Postwar role of plastics, The.....	April	59
Predrying molding powders.....	May	86
Printing with thermoplastic plates.....	October	59
Priority-free pipe.....	September	48
Producing trench mortar shell fuses.....	January	71
Product development.....	September	50
Product development.....	October	54
Product development.....	November	66
Product development.....	December	60
Product development.....	January	58
Product development.....	February	54
Product development.....	March	74
Product development.....	April	60
Product development.....	May	70
Product development.....	June	74

ARTICLE	Month	Page
Product development.....	July	60
Product development.....	August	62
Properties of laminated phenolics.....	August	82
Protecting aviators from sunburn.....	February	112
Protecting textiles from silverfish.....	February	51

## R

Reducing breakage in the Navy.....	November	80
Repeated flexural stress (fatigue) test.....	December	55
Road map for navigators.....	January	52

## S

Safety devices for aviation plants.....	February	48
Screens without holes.....	July	64
Seaplane floats go to war.....	June	84
Seeing through turbines.....	July	59
Sixty-nine plus 247 equals 4 minus 2.....	June	66
Snake bite kit.....	February	74
Saran for injection molding.....	October	67
Scarfed joints in plywood.....	September	74
Sealing jars, modern style.....	December	71
Seeing is believing.....	October	58
Signal Corps mast-raising.....	December	79
Simplified welding tool.....	May	66
S.P.E. convention in Detroit.....	October	56
Society of the Plastics Industry (S.P.I.)—news.....	January	120
S.P.I.—news.....	May	124
S.P.I. news.....	August	124
S.P.I. Fall convention.....	November	45
S.P.I. Pacific Coast conference.....	March	98A
S.P.I. annual spring conference.....	June	55
Solid shower heads.....	May	64
Spouted closure.....	January	70
Standardized finishing fixtures.....	February	73
Steering with redwood wheels.....	January	77
Steps for prolonging instrument life.....	March	96
Synthetic rubber.....	March	108

## T

Taps for brass.....	November	62
Technical briefs.....	September	92
Technical briefs.....	October	100
Technical briefs.....	November	94
Technical briefs.....	December	100
Technical briefs.....	January	100
Technical briefs.....	February	94
Technical briefs.....	March	110
Technical briefs.....	April	102
Technical briefs.....	May	106
Technical briefs.....	June	106
Technical briefs.....	July	96
Technical briefs.....	August	108
Tension springs in the nursery.....	December	66
Thermoelectric C-stage laminates.....	June	69
Thermoplastics for aircraft tools.....	May	74
Thermoplastics in the garden.....	November	68
Thermoplastics order revised.....	April	insert
Thermosetting printing plates.....	May	67
Transfer molding of phenolic material.....	April	73
Transparent pipes for beer.....	November	52
Transport plane mast.....	July	57
Treads and wheels for hand trucks.....	February	70
Triumph in a helmet.....	November	53
Tubing and tube fittings.....	August	65

## U

U. S. Plastics Patents.....	September	94
U. S. Plastics Patents.....	October	104
U. S. Plastics Patents.....	November	98
U. S. Plastics Patents.....	December	102
U. S. Plastics Patents.....	January	104
U. S. Plastics Patents.....	February	92
U. S. Plastics Patents.....	March	114
U. S. Plastics Patents.....	April	106
U. S. Plastics Patents.....	May	102
U. S. Plastics Patents.....	June	110
U. S. Plastics Patents.....	July	100
U. S. Plastics Patents.....	August	112
U. S. Plastics Patents.....	June	85
Unlimited revolutions for gun turrets.....	November	69
Unusual costs in war work.....	November	69

## V

Vinyl compound combats corrosion.....	March	85
---------------------------------------	-------	----

## W

Wartime conference in Toronto.....	February	62
Wartime molding in Australia.....	December	54
Weight saving in pressure gages.....	December	84
Wide extrusions.....	September	44
Wind-up of the helmet.....	April	49
Woman power in the plastics industry.....	January	61

## Y

Yarn for screens.....	March	70
-----------------------	-------	----



# INDEX OF INDIVIDUAL SUBJECTS

A				B			
ADHESIVES				BATTERIES			
Sealing compounds by Presstite Eng. Co.	September	104		Transparent battery housing	August	62	
"Flying flivver garage" (Plaskon glue)	February	47					
Molded-plastic-plywood in aircraft hot and cold press glues	February	84					
Polyvinyl acetate adhesives—digest	February	90					
New resin for paper making—digest	February	90					
Glue plastics and you (publication)	February	106					
Laminated plastics from paper	February	112					
"New war planes for the United Nations"	March	61					
Plastic-bonded cotton fiber	May	100					
"Custom converter"	June	51					
"Seaplane floats go to war"	June	84					
AIRCRAFT AND AVIATION				BIBLIOGRAPHY (Recent books on plastics)			
"Campaign for war business"—airplane equipment	September	38		"Plastics"	September	100	
Gliders	September	32		"This Chemical Age"	September	100	
Aircraft control knobs	October	54		"The Technology of Natural Resins"	September	100	
De-icer	December	47		"Volumetric Analysis. Vol. I. Theoretical Fundamentals"	October	108	
Transparent escape hatch doors	December	68		"Pioneers of Plenty—The story of Chemurgy"	October	108	
"Planes of paper"	December	82		"Mechanical Engineers' Handbook, 4th edition"	October	108	
Repairing bullet holes in acrylic plastics	December	86		"Chemical Dictionary"	October	108	
"Low pressure laminating for aircraft"	January	54		"The Electron Microscope"	November	104	
"Map and data cases"	January	58		"Technidata Hand Book"	November	104	
Pistol grip on control stick	January	59		"Machine Tools at Work"	November	104	
Bombsight	January	66		"Chemical Engineering Catalog, 1942-43"	December	110	
Flap indicator and antenna guides	January	67		"Control Chart Method of Controlling Quality during Production"	December	110	
"Aircraft from West Coast timberland"	January	68		"Breaking the Skilled Labor Bottleneck"	December	110	
"Bomb recorder frame"	January	75		"Rationed Rubber and What to Do About it"	January	110	
Plastic lamps for bailed out bales	February	45		"Advances in Colloid Science. Vol. I"	January	110	
"Flying flivver garage" (hangars)	February	47		"The Men Who Make the Future"	January	110	
"Safety device for aviation plants"	February	48		"National Paint Dictionary"	February	106	
Fluorescent envelopes	February	54		"Industrial Chemistry, 4th Edition"	February	106	
Army astro domes	February	56		"14,000 Gear Ratios"	February	106	
Molded plastic plywood aircraft	February	83		"Strategic Materials in Hemisphere Defense"	February	106	
Low cost dies for aircraft parts	February	90		"Chemistry of Engineering Materials"	March	120	
Hydulignum-new wood material for aircraft	February	90		"War Cases"	March	120	
Protecting aviators from sunburn	February	112		"Science Remakes Our World"	March	120	
New war planes for the United Nations	March	61		"Plastics from Farm and Forest"	April	110	
Ventilation en route	March	74		"Plastics for Industrial Use"	April	110	
Wing tip light	March	82		"How to Read Electrical Blueprints"	April	110	
Impact-resistant aircraft windshields	March	107		"Natural and Synthetic High Polymers"	May	112	
"A new partnership is formed"	April	53		"How to Read Blueprints"	May	112	
"Jettison gas tank"	April	60		"1942 Book of A.S.T.M. Standards"	June	122	
Cast drill jigs	April	61		"Henley's 20th Century Book of Formulas, Processes and Trade Secrets"	June	122	
"Gliders from the Wolverine state"	April	62		"Metal Industries Catalog"	July	108	
Pilot seat	April	68		"A.S.T.M. Standards on Plastics"	July	108	
"The postwar role of plastics"	April	146		"Industrial Chemistry of Colloidal and Amorphous Materials"	July	108	
"Air Corps flashlight"	May	63		"Adhesives"	July	108	
"Thermoplastics for aircraft tools"	May	74		"The Spirit of Enterprise"	August	116	
Ammunition rollers transport parts	May	76		"Electrical and Radio Dictionary"	August	116	
Keep your engine dry	May	89					
Laboratory for aircraft acrylics	May	118					
Aircraft parts (laminates)	June	69					
Aircraft fittings (interiors)	June	72					
"Map and data case"	June	74					
"Spare lamp box"	June	74					
Transparent control handles	June	78					
Tenite II rim for steering wheel	June	78					
Lumarith caps for shipping plugs	June	78					
Seaplane of plywood	June	84					
Gun turrets	June	85					
"Engines have brains" (radial aircraft engine)	July	51					
"Transport plane mast"	July	57					
Grommets	July	60					
Inspection hole cover for Army transport gliders	July	61					
All-plastic airplane	July	89					
Low pressure molding of laminates	August	57					
Drafting or plotting instrument	August	63					
Brackets for sea markers	August	63					
Tubing and tube fittings	August	65					
Salvo release switch guard of Lumarith	August	68					
Lumarith flashlight	August	69					
Elastic-type Vinyon yarn for aviators' suspenders	August	69					
AMMUNITION				BLOWING			
Army Booster tube	October	65		Blowing and pressing of injected plastics	August	90	
Canadian hand grenade	June	66					
ARCHITECTURE				BOATS AND ACCESSORIES			
Methacrylate models	October	54		"Insulation aboard U. S. Navy vessels"	October	45	
Industrial designing	December	62		Azimuth dial	January	52	
"Flying flivver garage"	February	47		"Down-East handwheels for destroyers"	August	61	
Plastics in assembled building structures (digest)	February	90					
"The postwar role of plastics"	April	148					
ASSEMBLY DEVICES (See also Booklets for catalogs)				BONDING (see Adhesives)			
"One-piece assembly device"	October	78					
Molded parts for civilian gas mask	February	63					
Elastic stop gang channel nuts	February	93					
New angle anchor speed nut	April	112					
AUTOMOTIVE				BOOKLETS			
Motorcycle grips	October	63		"Plastics from Agricultural Materials"—Iowa Eng. Exp. Stat.	September	100	
Brake linings, clutch facings, fan belts	October	63		Bidder's Reference book—Quartermaster Corps	September	100	
Modeling postwar motor car bodies	February	50		"Civilian Conservation of the B.T.U."—Carrier Corp.	September	100	
"The postwar role of plastics"	April	146		Koroseal handbook—Goodrich	September	100	
				Vulcanized Fibre & Phenol Fibre—Taylor Fibre Co.	September	134	
				Machinery—Delta Mfg. Co.	September	134	
				Ernst drum and barrel carriers—Ernst Carrier Sales Co.	September	134	
				Protective and Decorative Coatings—Metasap Co.	September	134	
				16-in. precision lathes—South Bend Lathe Works	September	134	
				Information on nails, rivets, etc.—John Hassall Co.	September	134	
				Employees' book—Boonton Molding Co.	October	108	
				Supplement to Catalog—Jas. H. Matthews & Co.	October	108	
				Screw products catalog—Manufacturers Screw Prod.	October	108	
				Terpene solvents—Hercules Powder Co.	October	108	
				Report on industrial design activities—Calif. Inst. Tech.	October	108	
				Saran tubing and fittings—Hodgman Rubber Co.	October	108	
				Bakelite laminating plastics booklet	November	104	
				Rubber guide book for American War Industries—Goodrich	November	104	
				Catalog describing Universal Slotmaster—Exp. Tool & Die	November	104	
				Folder on Celoron molded plastics—Cont. Diamond Fibre	November	104	
				Bulletin on liquid filled recording thermometers—Bristol	November	104	
				New control function, Hyper-Reset—Foxboro Co.	November	104	
				Chemicals from coal—Koppers Co.	November	104	
				Price reductions—Elastic Stop Nut Corp.	November	104	
				Development Possibilities of Paper for War Industry—Byron Weston Co.	December	110	
				Folders on drill and radial drill presses—Walker-Turner Co.	December	110	
				Catalog on air conditioning equipment—Carrier Corp.	December	110	
				Vinylite, Polyvinyl Acetate Resins—Carbide & Carbon	December	110	
				Vinylite Rigid Sheet Plastics—Carbide & Carbon	December	110	
				Vinylite Resins—Carbide & Carbon	December	110	
				Fabrication of Vinylite Plastics by Screw Extrusion—Carbide & Carbon	December	110	
AWARDS IN PLASTICS							
John Wesley Hyatt award (1941)	November	insert					
John Wesley Hyatt award (1942)	July	56					
Chemical Industry medal for 1943 to Dr. John J. Grebe	August	122					

**BOOKLETS (Continued)**

	Month	Page
Formica Plastic Surfaces—Formica Insulation Co.	December	110
Phenolite—National Vulc. Fibre	December	110
Doall Library—Continental Machines Inc.	December	110
Catalog on Industrial Instrument—Foxboro Co.	December	110
Industrial or Manufacturing Uses of Fir Plywood—Douglas Fir Plywood Assoc.	December	110
Turret lathes—South Bend Lathe Works	December	110
Cellulose plastics in war and industry—Cel. Celluloid	January	110
"Technique of Plywood"—2nd edition—I. F. Laucks, Inc.	January	110
Catalog on self tapping screws—Parker Kalon Corp.	January	110
Booklet on flexible shaft machines, grinders, accessories—Fordom Co.	January	110
"23 ways to conserve the life of your multiple V-Belt Drives"—Multiple V-Belt Drive Assoc.	January	110
"Micarta Data Book"—Westinghouse Elect.	January	110
Organization and training of industry	February	106
Wet-Dry surfacing—Porter Cable	February	106
Uformite CB-551—Resinous Prod. & Chem. Co.	February	106
Semi-automatic and preforming presses—F. J. Stokes Machine	February	106
Vinylite Plastics for Wire and Cable Insulation—Carbide & Carbon Chem.	February	106
Rubber guide book for American War Industries—Goodrich	February	106
Glue Plastics and You—I. F. Laucks, Inc.	February	106
Chemicals from Coal—Koppers Co.	February	106
Analytical filter papers—Schliecher & Schuell Co.	February	106
The Rohm & Haas Reporter	March	120
Reference bulletin—Harding Bros.	March	120
Chromium Protection	March	120
The suitability of various thermoplastics—Cruver Mfg.	March	120
British Plastics Federation Ltd.	March	120
War Production in 1942	March	120
Manual on assembly gluing—S.P.I.	March	120
Study on stains and varnishes—Calco Chem. Co.	March	120
Designing molded plastic parts	March	120
Catalog No. 42 of the Construction Machinery Co.	March	120
Folder by Markem Machine Co.	March	120
Atlas Spans and Atlas Tweens	March	120
Equipment news	March	120
The asbestos factbook	March	120
7th revised edition of the Classified Directory of the Assoc. of Consulting Chem. & Chem. Eng.	March	120
Invincible Tool Co. booklet	March	158
Mine safety appliances Co. booklet	March	158
Baldwin Southwark	March	158
The Di-Acro system of metal duplicating without dies	March	158
Report of the proceedings of the war service meeting	March	158
Descr. & Spec. of two net patented process steels	March	158
Evaluation of dye intensity	March	158
National Board of Fire Underwriters booklet	March	158
Catalog No. 42 on counting, timing & recording devices	March	158
Catalog No. 27-A—Robinson Mfg. Co.	March	158
Bulletin No. 300—Robinson Mfg. Co.	March	158
Bulletin CD-10—Mine Safety Appliances Co.	March	158
"Manual of Extruded Plastics"	April	110
"Extruded plastic tubing and shapes"	April	110
"Aircraft plywood and its finishing requirements"	April	110
Bulletin on increasing water resistance	April	110
"Bottle-necks"	April	110
5th edition of "Douglas Fir Plywood"	April	110
"Tygon"	April	110
Catalog of Knu-Vise Inc.	May	112
Catalog of Tool Equipment of Jefferson Machine Co.	May	112
Stratosphere Test Chambers	May	112
Bulletin No. 300—Robinson Mfg. Co.	May	112
M.S.A. Tool Board—Mine Safety Appliances Co.	May	112
Catalog No. 42—Production Inst. Co.	May	112
Rubber and Composition Machinery, 1942	May	112
Elementary and Advanced Technical Data	May	112
National Board of Fire Underwriters	May	112
Folder—Gemoid Corp.	May	112
Index to A.S.T.M. standards	June	122
Bulletin of Carbide & Carbon Chemicals about vinylite resins	June	122
Bakelite manual to help quantities of articles molded from low loss phenolics	June	122
Celanese in the postwar world	June	122
Hercolyn and Abalyn	June	122
Flexalyn and Flexalyn C.	June	122
Chlorinated Paraffin	June	122
"Canadian Chrysotile Asbestos Classification"	July	108
"The properties of Ameripol D," revised catalog section	July	108
"Do's and Don'ts" handbook	July	108
4th in series of digests by OPM	July	108
Bulletin No. 1-1043 "Polyvinyl alcohol for grease proof and grease-resistant papers"	July	108
Catalog No. 100-C—So. Bend Lathe Works	July	108
Edge Moor Iron Works bulletin	July	108
Carrier Corp. catalog	July	108
Bakelite Corp. folder	July	108
Elmer R. Mills corp. circular about Mills-Plastics tubing and fittings	July	108
Help select precision products for specific needs	July	108
Aldrich Pump Co. Catalog No. 100	July	108
Monsanto bulletin No. 1B/7 on plastics	August	116
Technical Data bulletin No. 4-243—Du Pont	August	116
Booklet on fire fighting	August	116
1943 Catalog of Delta Mfg. Co.	August	116
OWI "Handbook of Emergency War Agencies"	August	116
Pamphlet No. 117—Edge Moor Iron Works	August	116
U. S. Rubber Co. booklet guide to understanding of synthetic rubber	August	116
Star Fuse Co. leaflet of star-test pocket pliers	August	116
Titeflex Metal Hose Co. Catalog No. 113	August	116
Wartime uses of lignum-vitae—Lignum-Vitae Prod.	August	116
Plaskon's 3 folders for proper use of resin glues for bonding	August	116

**BOOKLETS (Continued)**

	Month	Page
Durez's catalog on molding compounds, industrial resins, and oil soluble resins	August	116
Catalog for production men—R. W. Cramer Co.	August	116

**BOXES, PACKAGES AND CONTAINERS**

Packing drills	October	63
Stock molds—transparent containers	October	80
Saran containers	November	56
Tenite containers for aircraft parts	November	57
Collapsible tube	November	58
First aid kit	January	53
Plastic lined container	January	116
Plastic lunch kit	February	55
Snake bit kit	February	74
Boxes for bullets	May	59

**BUCKETS**

A new partnership is formed	April	53
-----------------------------	-------	----

**BUILDING MATERIALS**

The postwar role of plastics	April	148
------------------------------	-------	-----

**C**
**CASTING**

Thermoplastics for aircraft tools	May	74
Liquid phenolic resins for tooling	July	65
Billiard balls	July	71

**CIVILIAN DEFENSE**

Dimout shades	September	60
Bomb extinguisher	December	73
Defense training in plastics	December	120
Incendiary bomb pump	February	54
Gas mask	February	63

**CLOSURES**

Spout for oil can	September	58
Closure for lighter fluid	January	70

**COATINGS**

Plastic coatings by Marley Chemical Co.	September	104
Covering binocular bodies	October	50
"Advances in plastics—surface coatings"	January	88
Liquid coating developed	January	118
Protective coating for plastic bomber noses	January	152
Protecting textiles from silverfish	February	51
Cellulose acetate cable lacquers	February	90
Water emulsion paints	February	90
Vinyl compound combats corrosion	March	85
"A new partnership is formed"	April	53
Photolithographic printing plates	July	62

**COLOR**

Keyboard for color	February	57
Synthetic plastics and the textile industry	February	90
Color measurements on synthetic resins	February	94

**COMMITTEES**

Plastics technical committees in the U. S.	August	105
--	--------	-----

**COMMUNICATIONS**

Telephone pole	January	58
High frequency insulators	May	71
Condenser housings	May	76
Navy megaphones	July	61

**CONTAINERS**

Stock molds (cosmetic containers)	May	94
Resin-bonded plywood containers	August	69

**D**
**DESIGN**

Modeling postwar motor car bodies	February	50
Design for tomorrow	March	92
The postwar role of plastics	April	146
The future of product design	June	76
Design suggestions for molded phenolics	June	80
The future of the injection industry	August	90

**DIES**

Cast drill jigs	April	61
Thermoplastics for aircraft tools	May	74

**DISPENSERS**

Kleenex dispenser	September	59
-------------------	-----------	----

**DRILLS**

A handful of power—hand drills	July	55
--------------------------------	------	----

**DRYING**

Handling thermoplastic materials	April	80
Predrying molding powders	May	86



## E

### EDUCATIONAL

	Month	Page
Boston conference on distribution.....	September	102
Ralph Hemphill Research Foundation.....	September	102
Industrial design course at Carnegie Inst.....	September	103
Methacrylate models.....	October	54
New courses at Polytechnic Inst. of Brooklyn.....	October	110
Extension course at McGill.....	November	110
School of Design in Chicago—modern designs.....	December	62
Industrial fellowship founded at Mellon Inst.....	December	118
Defense training in plastics.....	December	120
Opening of forums by P.I.T.I. in cities.....	February	110
Ford airplane school course on plastics.....	February	110
Education for peacetime performance.....	May	62
New York City school—3 yr. course.....	May	114

### ELECTRICAL APPLIANCES AND MATERIALS

Radio tubes.....	September	58
Instrument for measuring small electric voltages.....	September	59
"Insulation aboard U. S. Navy vessels".....	October	45
Push signal switches, directional signals.....	November	56
Directional signals of Lumarith.....	November	56
High tension plugs and sockets.....	November	56
Watertight socket.....	November	57
Flashlight.....	December	53
Switch body.....	December	68
Warning signal units.....	December	68
Electrical connection handles.....	December	69
Fluorescent tube sockets Durez.....	February	61
Large phenolic switch base.....	February	60
Air Corps flashlight.....	May	63
Predrying molding powders.....	May	86
Pocket pliers.....	July	69
Transparent insulation of radio coils.....	August	68

### ELECTRONICS

"Heatronic Molding".....	March	87
"Molding with radio frequency".....	May	83
"Polystyrene for wartime electronics".....	August	80

### EQUIPMENT

Mechanical properties of plastics.....	April	87
Handling thermoplastics.....	April	154
Simplified welding tool.....	May	66
Hand drills.....	July	55
Spray gun.....	July	69
Socket wrenches.....	July	69
Engine safety shields.....	August	62

### EXHIBITS & EXPOSITIONS

Modern Plastics Exposition at Rich's Dept. Store and Loveman, Joseph & Loeb.....	September	102
Luminescent materials—National Paint & Varnish Assn.....	September	102
National Chemical Exposition.....	September	102
Garden day at American Insulator Corp.....	October	110
Announcement of Modern Packaging competition.....	November	110
Packaging Convention.....	November	110
Announcement of R. H. Macy exhibit.....	November	110
Postponement of R. H. Macy exhibit.....	December	116
Baltimore Museum of Art and P.I.T.I.....	January	116
New Jersey State Museum exhibit.....	January	118
Packaging Conference and Exposition.....	March	128
Chrysler Exhibit of War Matériel.....	June	120
"Plastics Today and Tomorrow"—at Yale.....	August	122

### EXTRUSION

Wide extrusions for flashing and capping strips.....	September	44
Insect screen.....	September	50
Strips for shock absorption.....	September	58
Extruded pipes for beer.....	November	52
Extruded collapsible tube.....	November	58
Extruded strips—stock molds.....	November	82
"Extruded saran pipe for industrial plants".....	January	60
Extruded tubing for fire fighter (pump).....	February	54
Flexible tubing for poultry fountain.....	February	55
Mopping up with thermoplastics.....	February	59
"Yarn for Screens".....	March	70
"Air hose for life rafts".....	March	74
Expendable hypodermic syringe.....	April	55
Extruded wire markers.....	June	79
Tubing and tube fittings.....	August	65
Molding vinyl copolymer dentures.....	August	71

## F

### FABRICATING

Grinding and machining cast resins.....	September	76
Fabrication of polystyrene.....	November	79
Phenolic resin board.....	January	56
Safety devices for aviation plants.....	February	49
Machining laminated phenolics.....	May	92
Seeing through turbines.....	July	59

### FABRICS AND YARN

Protecting textiles from silverfish.....	February	51
Yarn for screens.....	March	70
New elastic-type Vinyon yarn.....	August	69

### FASHION (see Style)

### FILES

Filing flash and fins.....	May	88
----------------------------	-----	----

## FILLERS

	Month	Page
"Lignin-enriched filler".....	September	84
"Plastics from hydrolyzed lignocellulose".....	October	91
Engines have brains—mineral-filled melamine.....	July	51
Chemical resistance of laminates.....	July	80
Redwood plastics.....	July	91
Grade C phenolic laminated sheet by postforming.....	August	70

## FILMS

Movie on Repair and Maintenance of Plexiglas.....	December	118
"This Plastic Age".....	February	110
"Drive for Victory".....	March	156

## FINISHING AND POLISHING

"Machining acrylic plastics".....	October	72
Heating arrangements for drying finishes.....	October	79
Standardized finishing fixtures.....	February	73
"Filing flash and fins".....	May	88
"Unlimited revolutions for gun turrets".....	June	85
"Polystyrene for wartime electronics".....	August	134

## FITTINGS

Extruded pipe for industrial plants.....	January	60
Tubing and tube fittings.....	August	65

## FLASHLIGHT

Colored plastic lamps or flashlights.....	February	49
Air Corps flashlight.....	May	63
Flashlight.....	August	65

## FOREIGN DEVELOPMENTS AND PATENTS

London letter.....	September	112
London letter.....	December	126
Canada's plastics industry in wartime.....	March	76
London letter.....	March	134
A British plan for furniture.....	April	70
British Legion Badges.....	April	114
London letter.....	May	126

## FORMING

Thermoplastic C-stage laminates.....	June	69
Design suggestions for molded phenolics.....	June	90
Post-forming of thermosetting products.....	August	70

## FRAMES (PICTURES)

Stock molds.....	April	84
------------------	-------	----

## FURNITURE

A British plan for furniture.....	April	70
A new partnership is formed.....	April	152
The future of product design.....	June	76

## FUSES

Plastic fuse for hand grenade.....	June	66
------------------------------------	------	----

## G

### GAGES

Oil tank gage.....	September	58
Molding a one-piece gage face.....	September	73
Pressure gages.....	December	84
Automatic gasoline float gage.....	June	78

### GAMES

Shuffleboard pieces (stock molds).....	April	84
Darts.....	June	79
Billiard balls.....	July	71

### GASKETS

"Gasket material".....	May	78
------------------------	-----	----

### GLIDERS

"Gliders from the Wolverine State".....	April	62
Inspection hole cover for transport gliders.....	July	61

### GLUES (see Adhesives)

### GOGGLES

Safety masks.....	July	69
Plastic goggles.....	August	68

### GOVERNMENT AND INDUSTRY (see also Wash- ington Round-Up)

	Month	Page
"Campaign for war business".....	September	38
Principles governing wartime construction—WPB.....	September	102
"S.P.E. convention at Detroit".....	October	56
Formation of Plastic War Production Association.....	October	110
"Cooperation—industry's job today".....	November	44
"S.P.I. fall convention".....	November	45
"Unusual costs in war work".....	November	69
Industry operations charts issued by WPB.....	December	120
The first year of war—and the next.....	January	43
"Women power in the plastic industry".....	January	61
Plastics Materials Mfgs. Assn. meeting.....	February	108
Washington showing of "This Plastic Age".....	February	110

GROMMETS	Month	Page
"Ten little grommets".....	July	60

## H

HANDLES (see also Knobs)	Month	Page
Machine tool handles.....	February	61
Stock molds.....	March	98
Plug gage handles.....	April	60
Solid shower heads.....	May	64
Control handles.....	June	78
Textolite handles.....	June	79

## HARDWARE

Thumb tack heads.....	March	83
Modern plumbing fixtures.....	March	84
Textolite handles and thumb screws.....	June	79

## HELMETS

Wind-up of the helmet.....	April	49
----------------------------	-------	----

## HOUSEHOLD DECORATIONS AND APPLIANCES

Insect screen.....	September	50
Strainer.....	September	59
Plumbing fixtures.....	October	62
Ice-cube tray.....	November	57
Hose fittings.....	November	68
Tableware.....	November	80
Jar closing sealing ring.....	December	71
Plastic mop.....	February	58
Sink stoppers.....	February	60
Candle holder base.....	February	78
Yarn for screens.....	March	70
Toilet seats.....	March	82
"Modern plumbing fixtures".....	March	84
Stock molds (condiment sets).....	March	98
"A new partnership is formed".....	April	53
Toilet tank float.....	April	68
Stock molds (salt and pepper shakers, picture frames).....	April	84
Arming the civilian.....	May	69
Allergy-proof pillow case.....	May	76
Stock molds.....	May	94
Foot tubs.....	June	82
Garden aid.....	June	79
Dishes, cookie cutters, salad fork and spoon.....	June	94
Screens without holes.....	July	64
Sprayer of vinyl plastic molding compound.....	July	67
Margarine mold.....	July	68
Soap dispenser.....	August	68
Cellulose acetate scoop.....	August	69

## I

### IDENTIFICATION TAGS AND NAMEPLATES

School children's tags.....	March	82
Injection molded tag holders.....	April	67
Marking plates.....	June	75

## IMPREGNATION

Gasket material.....	May	78
----------------------	-----	----

## INDUSTRIAL APPLICATIONS

Priority-free pipe.....	September	48
Differential wheel bearing.....	September	50
Industrial safety suit.....	September	51
Toilet tank float.....	September	58
Shock-proof absorbers.....	September	58
Oil spout.....	September	58
Milk can filling unit.....	September	58
Cups for crude rubber.....	September	61
Foundation of production.....	September	68
Printing plates.....	October	59
Radio tube base, radio coil form, case.....	October	62
Induction coils.....	October	62
Plumbing fixtures.....	October	62
Manometer.....	October	62
Brake linings, clutch facings, fan belts.....	October	63
Molding on airtight meter.....	November	51
Transparent feeder units.....	November	67
Funnels, dustpans, scoops.....	December	61
Magnifying eye shade.....	December	61
Studs for fastening devices.....	December	68
Magnifying lens on lathe.....	December	68
Coin meter.....	December	68
Saran pipe.....	January	60
Shields for screw machines and turret lathes.....	January	66
Paint brushes.....	January	67
Turkey fountain.....	February	55
Transparent lunch box.....	February	55
Color card cases.....	February	58
Large phenolic switch base.....	February	60
Plastic collar for oilstone used on edge tool sharpeners.....	February	60
Fluorescent tube sockets.....	February	60
Crystalite sample holders.....	February	61
Handles and control knobs.....	February	61
Methyl methacrylate bearings on juice extractors.....	February	61
Weldwood cover plate for diesel engines.....	February	61
Truck wheels for hand trucks.....	February	70
Handles—stock molds.....	February	78
"Varn for screens".....	March	70
Electroplating masks.....	March	78
Hammer.....	March	82
Firebox.....	March	82

## INDUSTRIAL APPLICATIONS (Continued)

INDUSTRIAL APPLICATIONS (Continued)	Month	Page
Control sheaves for continuous take-ups.....	March	94
A new partnership is formed.....	April	53
Plug gage handles.....	April	60
Rotors for aridifiers.....	April	61
Injection-molded tag holders.....	April	67
Condenser cases, fastener driver.....	April	68
Midget blower.....	April	69
Insulation for Wheatstone bridges.....	April	79
Molded valves for oil well pumps.....	April	83
A new partnership is formed.....	April	150
"Solid shower heads".....	May	64
Simplified welding tool.....	May	66
Navy type thermometer.....	May	70
High frequency insulators.....	May	71
Acid-resistant rope.....	May	71
Storage tank fittings.....	May	72
Phenolic filter parts.....	May	72
Cream separator part.....	May	73
Siphon.....	May	77
Lantern.....	May	77
Gasket material.....	May	78
Marking plates.....	June	75
Gages.....	June	78
Lumarith caps for shipping.....	June	78
Handles and thumb screws.....	June	79
Lucite storage tank.....	June	79
Wire markers and terminal lug insulators.....	June	79
A handful of power—hand drill.....	July	55
Seeing through turbines.....	July	59
Sprayers of vinyl plastic molding compound.....	July	67
Saran pipe assemblies.....	July	68
Plastic lunch kit.....	July	68
Plastic crayon pencils.....	July	69
Socket wrenches.....	July	69
Safety masks.....	July	69
Thread accumulators.....	July	69
Transparent battery housing.....	August	62
Plastic goggles.....	August	68
Transparent induction coils.....	August	68
Soap dispenser.....	August	68
Cellulose acetate scoop.....	August	69
Portable milking machine pulsator.....	August	69

## INSERTS (see also Assembly Devices)

Design suggestions for molded phenolics.....	June	90
"Engines have brains"—distributor housing molded of mineral-filled melamine.....	July	51

## INSIGNIA

"Labels for leathernecks".....	April	57
--------------------------------	-------	----

## INSTRUMENTS

Steps for prolonging instrument life.....	March	96
---	-------	----

## INTERIORS

"Seeing Is Believing"—plastics screens for process stages.....	October	58
--	---------	----

## K

### KNOBS (see also Handles)

Plane and tank knobs.....	September	59
Aircraft control knobs.....	October	54
Handles and control knobs—cast phenolic.....	February	61
Handles and knobs—stock molds.....	February	78

## L

### LABORATORIES

Laboratory for aircraft acrylics.....	May	118
Goodyear research laboratory.....	July	120

## LAMINATES AND LAMINATING

"Low pressure laminating".....	September	45
Tubing of resin-treated laminated paper.....	September	48
Laminated phenolic bearings.....	November	76
Kick and push plates.....	December	69
Design fundamentals.....	December	77
Planes from paper.....	December	82
"Low pressure laminates for aircraft".....	January	54
"Advances in plastics—laminates".....	January	90
"Flying flyover garage".....	February	47
Molding postwar motor car bodies.....	February	50
Weldwood cover plate for a diesel engine.....	February	61
"Molded plastic plywood in aircraft".....	February	83
Laminated plastics from paper.....	February	112
Paper laminates for molding.....	March	91
London letter.....	March	134
"Glider from the Wolverine State".....	April	62
"Boxes for bullets".....	May	59
Gaskets in review.....	May	78
"Machining laminated phenolics".....	May	92
"Custom converter".....	June	51
"Thermoelectric C-stage laminates".....	June	69
"Map and data case".....	June	75
"Seaplane floats go to war".....	June	84
"Engineering properties of plastics".....	June	95
"Allyl-type cast resins and laminates".....	June	101
New laminating hydraulic press.....	June	128
"Chemical resistance of laminates".....	July	80
All-plastic airplane.....	July	89
"Low pressure molding of laminates".....	August	57
Postforming phenolic laminated sheet.....	August	70
"Basic physical properties of laminates".....	August	91



# **LIGHTING AND LIGHTING EQUIPMENT (see also Electrical and Flashlights)**

Lighting shields of louverplac	September	51
"Old light in the new dark"—luminescent pigments	October	64
Letters for signs	January	66
Cylindrical electric water lights	January	66
Fluorescent tube sockets	February	61
Gliders from the Wolverine state	April	62
Lantern	May	76

## **M**

# **MACHINERY AND EQUIPMENT (except Presses)**

Foundation of production	September	68
Airloc cowl fastener for plywood	September	98
Manometer	September	98
Explosion proof timer	September	98
Moisture meter	October	112
Bench model turret lathe	October	112
Cold room air conditioners	October	112
Elastic stop gang channel nuts	October	112
Portable coolant pumps	October	112
D-M-E Standards	November	108
Mixing unit	November	108
MSD Respirator	November	108
Mixing and grinding mills	November	108
Inspection instrument	November	108
Dust collector	December	108
Remote valve control unit	December	108
Duplex die and punch filing machine	December	108
Repeating cycle timer	December	108
Air clamps	December	108
Dry blending machine	December	108
Mechanical action live center	January	108
Hose tool	January	108
Rotary automatic polisher	January	108
Time schedule controller	January	108
Electronic micrometer	January	108
Stamping press	January	108
Safety devices for aviation plants	February	48
Molded parts for civilian gas mask	February	64
Drop hammer, hydraulic press punches	February	68
Standardized finishing fixtures	February	73
Hardsteel reamer	February	96
Portable motor driven pump	February	96
Elastic stop gang channel nuts	February	96
Dust collector	February	96
Steps for prolonging instrument life	March	96
Hilco Universal cutter-grinder	March	132
Crane-arm attachment	March	132
New motor-driven starting pump	March	132
32-in. high Dillon Model B tensile tester	March	132
Angle-plate	March	132
Hardened thread-forming screw	March	132
Lodi steam generator	March	132
Lift carrier with built-in brake	March	132
Compact, portable coolant pumps	March	132
Hydraulic arbor press	March	132
High frequency electrostatic heating	April	112
Fibre-Tex—cleaner for floors	April	112
Angle anchor speed nut	April	112
Foam development for protection from alcohol fires	April	112
Speedy refrigeration for lab. work	April	112
Small portable unit to eliminate gases	April	112
Ply Garb—sleeves and aprons	April	112
Locking system for threaded inserts and studs	April	112
Welding tool	May	66
Laminating press	May	110
Heating-refrigerating chamber for testing instruments under extreme temperatures	May	110
Instant-Use—floor patch	May	110
Nicro steel casters	May	110
New automatic-manual control unit for continuous processing	May	110
Hopper attachment for standard lift trucks	May	110
Gloves for women handling rough materials	May	110
Coolants	May	110
Asco insert	May	110
Grinder	June	128
Twin-fast screw	June	128
Adjustable tool for surface facing in milling machines, etc.	June	128
Voltage tester	June	128
Laminating hydraulic press	June	128
Nedco Model R, sanding unit	June	128
Rolling rack system	June	128
Radio sewing machine	June	128
Electric hand drill	July	55
Autoclave, treating machine, laminating press, molding press	July	80
Electronic time-interval meter	July	106
Drive arrangement for inverted vertical triplex pumps	July	106
Photoelectric protective system	July	106
Elimination of enclosures to permit escape of vapors	July	106
Roan tool and cutter grinder	July	106
New type hydraulic press	July	106
Semi-automatic fixture—disc feeder	July	106
New industrial thermometer	July	106
New Servo sub-zero cooler	July	106
Shear-hardness attachment for Taber abraser	July	106
Pedal-operation marking machine	July	106
New granulating machine	August	114
New bellow-type vacuum pumps	August	114
Automatic plastic powder pre-heater and dehumidifier	August	114
New saw gun attachment for electric drill, flexible shaft or compressed airline	August	114
New electric sander	August	114
New chip breaker grinder	August	114
Drill press with new self-centering 30° pressure angle, 6-tooth involute spline	August	114
Improvements to hydraulic elevating table	August	114
Improved hardness tester	August	114
"Hydra" venturi-vacuum valves which are vacuum and pressure sealed	August	114

# **MARKING PLATES (see Identification Tags)**

Month Page

## **MASKS**

Electroplating masks	March	78
----------------------	-------	----

## **MATERIALS**

Revision in formulation of Durez 11540	September	102
Oil-soluble resins—Durez 409 and 420	September	103
Large-scale production of ammonium thiocyanate	September	104
"Saran for injection molding"	October	67
"New thermosetting compounds"—Columbia resins	October	88
"Molding with non-critical materials"	November	60
"Bagasse molding compounds"	November	64
"Cold molding impact material preforms"	November	78
Plasticizers	November	89
Melamine compound for buttons	November	110
Hardwood pitch extender	November	112
Elastic plastics	December	48
Nylon fleece	December	59
Bubblefil	December	70
Synthetic rubber from soy beans	December	118
"Advances in plastics—phenolic resins"	January	91
"Advances in plastics—urea-formaldehyde resins"	January	92
"Advances in plastics—plasticizers"	January	93
"Advances in plastics—cellulose esters"	January	94
"Advances in plastics—ethyl cellulose"	January	95
"Advances in plastics—vinyl resins"	January	96
"Advances in plastics—styrene and polystyrene"	January	97
"Advances in plastics—vinylidene chloride polymers"	January	128
"Advances in plastics—acrylic resins"	January	130
Liquid coating developed	January	118
Coating (protective) for bomber noses of plastic	January	152
Kirkite dies	February	68
Hydulinum-digest	February	90
Melamine for paper making	February	90
Formvar bonds	February	90
Properties of synthetic rubber	February	90
Protecting aviators from sunburn—Aero Lumarith	February	112
Bakelite announces new phenolics	March	130
KemPol	March	156
Insulation for wheatstone bridges	April	76
Handling thermoplastic materials	April	80
Silicon resinous materials	April	114
Styraloy 22	April	114
Thermoplastics for aircraft tools	May	74
Gasket material	May	78
Predrying molding powder	May	89
New plasticizers for vinyl resins and cellulose esters	May	95
Plastic-bonded cotton fiber	May	100
Laboratory for aircraft acrylics	May	118
Custom converter	June	51
Saflex for Ponchos	June	68
Thermoelectric C-stage laminates	June	69
Design suggestions for molded phenolics	June	90
Engineering properties of plastics—laminates	June	95
Improved heat-resistant methacrylate	June	98
Allyl-type cast resins and laminates (CR 39 methacrylate laminates)	June	101
Photolithographic printing plates	July	62
Nylon window screening	July	64
Liquid phenolic resins for tooling	July	65
Phenolic resin-pulp preforms	July	76
Chemical resistance of laminates	July	80
Redwood plastics	July	91
New forms for Nylon	August	64
Molding vinyl copolymer dentures	August	71
Polystyrene for wartime electronics	August	80
Properties of laminated phenolics	August	82
Basic physical properties of laminates	August	91
Synflex FT-11 and Synflex FT-22 developed by Industrial Synthetics Corps	August	122
New adhesive developed by Du Pont	August	124

## **MEDICAL**

Device for removing particles from eyes	February	61
Expendable hypodermic syringe	April	55
Ultra-centrifuge rotor for laboratory	April	68
Allergy-proof pillow case	May	77
Stock molds (medical applicator)	May	94

## **MEETINGS AND SYMPOSIUMS**

Society of Plastics Engineers	September	104
Detroit Rubber and Plastics Group	September	104
"S.P.E. convention at Detroit"	October	56
"American Chemical Society meeting"	October	98
Announcement of S.P.I. meeting	October	110
Meeting of Plastic War Prod. Assoc.	October	110
"S.P.I. Fall convention"	November	45
Packaging convention announcement	November	110
Association of Consulting Chemists & Chemical Engineers	November	110
American Society of Mechanical Engineers	November	110
American Institute of Chemists' dinner	November	110
A.S.M.E.	December	116
Chicago chapter—S.P.E.	December	116
Mr. Spencer's talk before Advt. Club, Worcester, Mass.	December	116
Dr. C. A. Thomas addresses sales executive meeting	December	118
National Chemical conference	December	120
Society of Plastics Engineers—Detroit section	January	116
Association of Consulting Chemists & Chemical Engineers	January	116
Society of Chemical Industry, Montreal section	January	116
Foreman's club—Formica Insulation Co.	January	116
American Society of Tool Engineers	January	118
Canadian meeting—S.P.I.	January	120
S.P.I. button section meeting	February	62

## MEETINGS AND SYMPOSIUMS (Continued)

	Month	Page
"Wartime conference in Toronto"	February	62
Plastics Material Mfg. meeting	February	108
Plastics Engineers Assn. meeting	February	108
S.P.I. Pacific conference	March	98A
Spring meeting of Amer. Society for Testing Materials	March	128
Third meeting of Plastics Engineers Assoc.	March	128
Meeting of Chicago chapter of Soc. of Plas. Engineers	March	128
"Present State of Kinetic Theory of Rubber Elasticity"	March	130
West Coast broadcast program	March	130
Spring meeting of S.P.I.	April	114
Packaging conference	April	114
Review of Injection molding	April	114
Society of Plastics Engineers	April	114
S.P.I. meeting	April	114
Detroit section of Soc. of Plastics Eng.	April	114
A.S.T.M. Committee week	April	114
"Plastics prognosis"—Canadian S.P.I. meeting	May	82
American Chemical Society meeting	May	98
9th Annual meeting—Chemurgic conference	May	114
Dinner meeting of Detroit section of Soc. of Plastics Engineers	May	114
Eastern Photoelasticity conference	May	114
5th monthly meeting of Plast. Eng. Assoc.	May	114
S.P.I. meeting	May	124
S.P.I. spring conference	June	55
Detroit section of S.P.E. April 30 meeting	June	118
Chicago section of S.P.E.	June	118
Rubber and plastics div. Montreal section of Society of Chemical Industry	June	118
Plastics Progress Club (PITI)	June	118
John Wesley Hyatt Award for 1942 to Frank Shaw	July	56
Meeting of A.S.T.M. Committee D-20	July	94
21st annual meeting of American Institute of Chemists on May 15th	July	116
Plastics Progress Club—dinner lecture	July	116
May 28th meeting of Detroit section of S.P.E.	July	116
S.A.E. War Material meeting	July	116
American Society of Mechanical Engineers held semi-annual meeting on June 14 to 17	July	118
S.P.E. June meeting	July	118
Plastic Sales Engineers Assoc. monthly meeting	July	118
S.P.I. sectional meeting at Waldorf	August	124

## MILITARY (see also Aircraft, Ammunition, Government and Industry)

"Campaign for war business"	September	37
"Molding the thunderer"	September	43
"Hot wings and cold set resins"	September	52
"Insulation aboard U. S. Navy vessels"	October	45
"Covering binocular bodies"	October	50
"The Army's auxiliary booster tube"	October	65
"Triumph in a helmet"	November	53
"Taps for brass"	November	62
"Reducing breakage in the Navy"	November	80
Bullets	November	56
Direction signals	November	56
Bayonet scabbard	November	66
"The Army gets new buttons"	December	43
"Lights that save lives"	December	54
"Fountain fixtures in the front lines"	December	59
"Signal Corps mast-raising"	December	79
"Planes of paper"	December	84
"Forming and repairing acrylic plastics"	December	86
Ammunition utensils	December	60
Warning signal units	December	68
"Road map for navigators"	January	52
"First aid carrier"	January	53
"Aircraft from West Coast timberlands"	January	68
"Producing trench mortar shell fuzes"	January	71
"Molding a bomb recorder frame"	January	74
Map and data cases	January	58
Pistol grip	January	59
Bombight	January	66
"Lights for bailed-out bales"	February	45
"Army astro dome"	February	56
Molded parts for civilian gas mask	February	63
Snake bite kit	February	74
"New war planes for the United Nations"	March	61
"Birth of an Army canteen"	March	71
Chemical range finder	March	75
Life raft hose	March	74
Anti-aircraft watch dome	March	82
Canadian plastic moldings	March	76
Pan-American air base	March	82
Wing tip light	March	82
"Wind-up of the helmet"	April	49
"Labels for leathernecks"	April	57
Jettison gas tank	April	60
Gliders from the Wolverine State	April	62
Pilot seat	April	68
Condenser cases	April	69
"Boxes for bullets"	May	59
"Air Corps flashlight"	May	63
Ammunition track rollers	May	76
Low pressure parts	June	51
Hand grenade	June	66
Marine raincoats or ponchos	June	68
Thermoplastic C-stage laminates (aircraft parts, fuselage tail wing, etc.)	June	69
Cockpit ventilator, vent nozzle, machine gun rollers, plugs	June	72
Spare lamp box	June	74
Map and data case	June	75
Transparent control handles	June	78
Firing pins for shells	June	78
Tenite II rim for pilot steering wheels	June	78
Foot tubs for Army	June	82
Plywood seaplanes	June	84
Transfer molded gun turret parts	June	85
Engines have brains—radial aircraft engine	July	51
Transport plane mast	July	57
Inspection hole cover for transport gliders	July	61

## MILITARY (see also Aircraft, Ammunition, Government and Industry) (Continued)

Navy megaphone of cellulose acetate	July	61
Low pressure molding of laminates	August	57
Handwheels for destroyers	August	61
Drafting or plotting instrument	August	63
Brackets for sea markers	August	63
Tubing and tube fittings	August	65
Lumarith salvo release switch guard	August	68
Lumarith flashlight	August	69
Yarn for military uses	August	69
Polyethylene for wartime electronics	August	80

## MODELS

"Seeing through turbines"	July	59
---------------------------	------	----

## MOLDING

"Molding the thunderer" (whistle)	September	43
"Molding a one-piece gage face"	September	73
"Saran for injection molding"	October	67
"Injection molded thermosetting parts"	November	41
"Molding an airtight meter"	November	51
"Molding with non-critical materials"	November	60
"The economics of automatic molding"	November	90
"Blowing process for thermoplastics"	December	46
"Wartime molding in Australia"	December	54
"Molding a bomb recorder frame"	January	75
Advances in plastics—molds and molding	January	89
"Mopping up with thermoplastics"	February	59
"Molded parts for civilian gas mask"	February	63
"Treads and wheels for hand trucks"	February	70
"Snake bite kit"	February	74
"Molded plastic plywood"	February	83
Electrostatic high frequency makes possible many new designs—Digest	February	90
"Birth of an Army canteen"	March	71
"Heatronic molding"	March	87
"Wind-up of the helmet"	April	49
"Labels for leathernecks"	April	57
"Injection-molded tag holders"	April	67
"Transfer molding of phenolic material"	April	73
"Air Corps flashlight"	May	63
"Arming the civilian"	May	69
"Thermoplastics for aircraft tools"	May	74
"Molding with radio frequency"	May	83
"Predrying molding powders"	May	86
"Custom converter"	June	51
"Low pressure molding" (custom converter)	June	54
Hand grenade fuse	June	66
Compression molding army foot tubs	June	82
Transfer molding swivel turrets	June	85
"Hydraulics in transfer molding"	June	88
"Design suggestions for molded phenolics"	June	90
"Engines have brains" (transfer and compression molding)	July	51
"Transport plane mast"—molding resin-treated paper	July	57
Sprayers of vinyl plastic molding compound (injection)	July	67
Billard balls—compression	July	71
All-plastic airplane—low and high pressure	July	89
"Low-pressure molding of laminates"	August	57
Handwheels for destroyers—molded fibre	August	61
Transfer molding of sea markers	August	63
Low pressure molding using wood molds	August	70
Molding vinyl copolymer dentures	August	71
Molding curved plastic plywood	August	73
"The future of the injection industry"	August	90

## MOLDS

"Advance in plastics—molds and molding"	January	89
Glue and glycerin composition	March	156
Thermoplastics for aircraft tools	May	74
Use of wood molds	August	70

## MUSICAL

Extruded fife	August	69
---------------	--------	----

## N

### NAMEPLATES (see Identification Tags)

## NOVELTIES

Stock molds (picture frame, shuffleboard parts)	April	84
Stock molds (lipstick case, pen holders)	May	94
Darts	June	79
Screening for gardeners	June	79
Plastic lunch kit	July	68
Billiard balls	July	71

## O

### OFFICE EQUIPMENT

Electric pencil sharpener	November	57
Safety belt guard for duplicating machine	November	66
Housing for printing calculator and adding machine	November	67
Portable register	November	71
Label holders, drawer pulls	December	69
Plastic crayon pencils	July	69



# OVENS (see Drying)

Month Page

## P

### PACKAGING

The postwar role of plastics.....	April	148
Metals and plastics.....	April	150
"Keep your engine dry" (airplane engine plugs)...	May	89
Caps for shipping spark plugs.....	June	78
Plastic razors and case.....	July	60

### PAPER

Low-pressure molding of laminates.....	August	57
--	--------	----

### PAPER PULP

Phenolic resin-pulp preforms.....	July	76
-----------------------------------	------	----

### PIPING (see also Extrusion)

Extruded pipe for beer.....	November	52
Saran industrial pipe.....	January	60
Saran pipe assemblies.....	July	68
Tubing and tube fittings.....	August	65

### PLANTS

Reichold Chemicals building new plant-smokeless powder.....	September	102
Dow Chemical building styrene plant.....	September	102
Rohm & Haas 2nd plant for manuf. of acrylonitrile.....	June	120

### PLANT EQUIPMENT (see also Machinery and Equipment)

Safety devices for aviation plants.....	February	48
Treads and wheels for hand trucks.....	February	70
Compassometer, magnifying scanning mirror, automatic gate cutting machine, moving table.....	February	73
Finishing machine.....	February	114
Custom converter (impregnating machine, etc.)...	June	51

### PLASTICIZERS

New plasticizers for vinyl resins and cellulose esters.....	May	95
---	-----	----

### PLATING

Electroplating masks.....	March	78
Unlimited revolutions for gun turrets.....	June	85

### PLUMBING

Toilet seat cover.....	February	60
Sink stoppers.....	February	60
Modern plumbing fixtures.....	March	84
Toilet tank float.....	April	68
Solid shower heads.....	May	64
Soap dispenser.....	August	68

### PLYWOOD

Gliders.....	September	52
Scarfed joints in plywood.....	September	74
Industrial designing.....	December	62
Mast raising.....	December	79
Map and data cases.....	January	58
Aircraft from West Coast timberlands.....	January	68
Flying flivver garages.....	February	47
Modeling postwar motor car bodies.....	February	50
Weldwood cover plate for Diesel engine.....	February	61
Molded plastic plywood in aircraft.....	February	83
Plastics digest—hydulignum (British Pl.).....	February	90
Glue plastics and you (publications), I. F. Laucks, Inc.....	February	106
Uformite CB-551, Cold Bonding Studies—publications.....	February	106
New war planes for the United Nations.....	March	61
Airplane base.....	March	82
"Gliders from the Wolverine State".....	April	62
Furniture.....	April	70
The future of product design.....	June	76
Seaplane floats go to war.....	June	84
Aircraft applications of plastics.....	July	89
Plastics from redwoods.....	July	91
Molding curved plastic plywood.....	August	73
Basic physical properties of laminates.....	August	91

### POSTWAR

The function of postwar research.....	July	70
The future of the injection industry.....	August	90

## POSTWAR APPLICATIONS

Modeling postwar motor car bodies.....	February	50
Design for tomorrow.....	March	92
The postwar role of plastics.....	April	59
Education for peacetime performance.....	May	62
Plastics prognosis.....	May	82
The future of product design.....	June	76

## PREDRYING—PREHEATING (see Drying)

## PREFORMING

Design suggestions for molded phenolics.....	June	90
Phenolic resin-pulp preforms.....	July	76
Handwheels for destroyers.....	August	61

## PRESSES

Hydraulic press for molding phenolic plastics.....	September	96
200-ton hydraulic straining press.....	October	112
Stamping press.....	January	108
Laminating press—Kingsbacher-Murphy Co.....	February	96
Hydraulic press—Hydraulic Machinery Inc.....	February	96
Small laminating press.....	May	110
Compression press.....	June	67
Laminating hydraulic press.....	June	128

## PRINTING

Thermosetting printing plates.....	May	67
Marking plates.....	June	75
Photolithographic printing plates.....	July	62

## PUMPS AND VALVES (Plant Equipment)

Coolant pump.....	September	98
Portable coolant pump.....	October	112
Enclosed, horizontal hydraulic pump.....	January	108
Portable motor driven test pump—Watson Stillman.....	February	96
Phenolic filter parts.....	May	72

## R

## RADIOS AND RADIO EQUIPMENT (see also Electrical and Electronic)

Radio tubes.....	September	58
Radio condenser housing.....	May	76
Transparent plastacele for insulation of radio coils.....	August	68

## RAINCOATS

Military raincoats.....	June	68
-------------------------	------	----

## RECORD DISKS

Records coated with trans. cellulose acetate.....	July	68
---	------	----

## RESEARCH (see also Postwar Applications)

Laboratory for aircraft analysis.....	May	118
The function of postwar research.....	July	70
Goodyear research laboratory.....	July	120

## RESIN BONDED WOOD (see Plywood)

## S

## SAFETY DEVICES

Industrial safety suit.....	September	51
Safety goggles.....	November	56
Dust/foe respirator.....	January	66
Safety devices.....	February	48
Incendiary bomb fighter.....	February	54
Heavy split leather thumb and forefinger.....	February	96
Fire alarm box.....	March	83
Safety masks.....	July	69
Engine safety shields.....	August	62
Plastic goggles.....	August	68

## SCHOOLS (see Educational)

## SCIENTIFIC APPLICATIONS

Methacrylate resins in surgery.....	September	56
Covering binoculars.....	October	50
Short-wave diathermy.....	October	55
Oxygen mask.....	October	55

# SCIENTIFIC APPLICATIONS (Continued)

	Month	Page
Dental impression trays	December	60
Tension springs for exercising	December	66
Fumigation under tarpaulin	January	59
Dustflee respirator	January	66
Dispensing cap	January	67
Microscope slips	January	67
Transparent blocks of Crystalite for samples	February	61
Mag-Optin (particle remover)	February	60
Snake bite kit	February	74
Expendable hypodermic syringe	April	55
Laboratory instrument	April	69
The postwar role of plastics	April	148
Navy-type thermometer	May	70
High altitude test chamber	June	74
Spare lamp box	June	74
Lucite storage tank	June	79
Sea water safe to drink—U. S. Navy	July	116

# SCREENS

Insect screens	September	50
Yarn for screens	March	70
Screen "grow aid" for gardeners	June	78
Nylon window screening	July	64

# SHAVING EQUIPMENT

Plastic razor and case	July	60
------------------------	------	----

# SHEAVES

Control sheaves for continuous take-ups	March	94
---	-------	----

# SOYBEANS

Synthetic rubber from soy beans	December	118
---------------------------------	----------	-----

# SPORTS

Fishing rod	October	63
-------------	---------	----

# SPRAYERS

Arming the civilian	May	69
Sprayers of vinyl plastic molding compound	July	67
Spray gun	July	69

# STATISTICS

Plastics statistics for 1941	September	86
This year of war—and the next	January	43
Labor standards in the plastics industry	April	56

# STOCK MOLDS

Cable clips, knobs, handles, spools	September	79
Transparent containers	October	80
Extruded edgings	November	82
Box, knobs, wing nut	December	90
Handles, knobs, candle bases, roller ball	February	78
Stock molds	April	84
Stock molds	May	94
Salad bowl, tray, relish dish, cookie cutter, fork and spoon, ink bottle, container, vial	June	94

# STORE EQUIPMENT

Fountain fixtures	December	58
-------------------	----------	----

# STORAGE

Handling thermoplastic materials	April	80
----------------------------------	-------	----

# STYLE APPLICATIONS

Nylon fleece	December	58
Box toes of shoes	December	60
Shoe sole of thermoplastic material	December	118
Shoe heels	April	68
Elastic yarn	August	69

# SYNTHETIC RUBBER

Elastic plastics	December	49
Agripol	December	118
Dr. Shive of Calco with Rubber Reserve Co.	January	116
3 technical men loaned by Goodrich to Govt. for work on synthetic rubber	January	118
Plant started production operations in Kentucky	January	118
Synthetic rubber	March	108

# T

# TESTING

	Month	Page
Mar resistance of plastics	September	79
A.S.T.M. test: Mar resistance of plastics	September	84
Calculation of a modulus of impact	September	88
Manometer	October	62, 63
Impact strength of plastic sheet	October	81
Behavior of plastics under vibrations	November	83
Acid and alkali resistance of plastics	December	91
Repeated flexural stress (fatigue) test	December	95
Effects of continuous heat on phenolics	February	79
Ignition points of plastic materials	February	88
Mechanical tests of cellulose acetate	March	99
Impact-resistant aircraft windshields	March	107
Mechanical properties of plastics	April	87
New plasticizers for vinyl resins and cellulose esters	May	95
Machining laminates (shearing)	May	136
Engineering properties of plastics	June	95
Improved heat-resistant methacrylate	June	98
Allyl-type cast resins and laminates	June	101
Chemical resistance of laminates	July	80
Impact testing of plastics—energy considerations	July	85
Meeting of A.S.T.M. Committee D-20	July	94
Tubing and tube fittings	August	65
Tensile test of phenol-formaldehyde laminated sheet	August	70
Properties of laminated phenolics	August	82
Basic physical properties of laminates	August	91

# TEXTILES (see also Fibers and Yarns)

Protecting textiles from silverfish	February	51
Yarn for screens	March	70
The postwar role of plastics	April	59
Plastic-bonded cotton fiber	May	100
Thread accumulators	July	69

# THERMOMETERS

Navy-type thermometer	May	70
-----------------------	-----	----

# TOILET ACCESSORIES

Toothbrush and holder	October	62
-----------------------	---------	----

# TOOLING

Liquid phenolic resins for tooling	July	65
------------------------------------	------	----

# TOOLS

Engine lathe tool holder	September	98
Drop hammer, hydraulic press punches	February	68
Mallet	March	82
Cast drill jigs	April	61
Simplified welding tool	May	66
Socket wrenches	July	69

# TRANSPORT (see also Aircraft, Automotive)

Modeling postwar motor car bodies	February	50
Transport plane mast	July	57
Inspection hole cover for transport	July	61

# TUBING (see also Extrusion)

Air hose for life raft	March	74
Expendable hypodermic syringe	April	55
Siphon	May	76
Stock molds	May	94
Tubing and tube fittings	August	65

# V

# VALVES

Molded valves for oil well pumps	April	83
----------------------------------	-------	----

# W

# WAR APPLICATIONS (see Military)

# WASHINGTON ROUND-UP (see also Government and Industry)

Reorganized plastics section of WPB	September	106
Thermoplastic order amended	September	106
Contract renegotiation	September	106
Members of organic plastics & resins Mfgs. and Adv. Com.	September	106
Chemical solvents program announced by WPB	September	106
Phenolic fabrics	September	106
Alcohol	September	106
Phenols	September	106



# WASHINGTON ROUND-UP (see also Government and Industry) (Continued)

	Month	Page
Phthalate plasticizers.....	September	106
Machine tool producers.....	September	106
New molds for old.....	October	114
OPA price regulations.....	October	114
Soluble nitrocellulose.....	October	114
Cyanamid derivatives.....	October	114
Cuprammonium rayon yarn.....	October	114
Furfural.....	October	114
Priority ratings.....	October	114
War risk insurance.....	October	114
Machine Catalog.....	October	114
Resin-coated cloth.....	October	114
Contract branch.....	October	114
Operating supplies.....	November	106
Phenol usage for closures.....	November	106
Acetic anhydride under allocation.....	November	106
Die castings.....	November	106
Vinyl polymers.....	November	106
Priorities.....	November	106
Regulations.....	November	106
Phenolics Order.....	December	112
Material substitutions.....	December	112
Chemicals Branch set up.....	December	112
Controlled Materials Plan.....	December	112
Price Control.....	December	112
Advisers on synthetic textiles.....	December	114
Classification symbols.....	December	114
Phosphate plasticizers.....	December	114
Maintenance and repair.....	December	114
Nylon.....	December	114
Office of Technical Development.....	December	114
Manning Tables.....	January	112
Phenol allocations.....	January	112
Resin-coated fabrics.....	January	112
Pigments.....	January	113
New chief for thermoplastics unit, WPB.....	January	113
Rush orders of scarce materials.....	January	113
Acrylics.....	January	113
Phthalic alkyds.....	January	113
Container enamels.....	January	113
Reagent chemicals.....	January	113
Acetone and butyl alcohol.....	January	113
Machine tools.....	January	113
Methyl methacrylate scrap.....	January	113
Voluntary renegotiation of war contracts.....	February	98
How far does WMC go?.....	February	98
Order M-154 restricts thermoplastic use.....	February	100
Thermoplastic molders ready to cooperate.....	February	100
Plasticizers shortage acute.....	February	100
Cellophane restrictions.....	February	100
Big demand for coal tar chemicals.....	February	100
Methanol to be allocated.....	February	100
Plastic parts and subassemblies.....	February	100
WPB to study distribution.....	February	102
Allocation of nitrocellulose.....	February	102
Application of raw materials.....	February	102
Styrene sales.....	February	102
Isopropyl.....	February	102
Adhesive tape.....	February	102
Acrylic and phenolic resins.....	February	102
Distribution of chemicals.....	February	102
Electrical insulating varnish.....	February	102
Controlled materials plan.....	March	122
About "Interim Assistance".....	March	122
A couple of things about shellac.....	March	122
WPB shakeup.....	March	122
Clearing office setup.....	March	122
CMP Regulation No. 3.....	March	122
Nitrocellulose end use must be specified.....	March	124
Plastics on shortage lists.....	March	124
Norepol in commercial production.....	March	124
Plastics machinery allocated.....	March	124
WPB working on phenol supply.....	March	124
Definitions of essentiality.....	March	124
Softwood plywood.....	March	126
Anhydrous aluminum chloride.....	March	126
Formaldehyde allocated.....	March	126
Availability of materials.....	March	126
Machinery control.....	March	126

# WASHINGTON ROUND-UP (see also Government and Industry) (Continued)

	Month	Page
Thermoplastic Order M-154 revised.....	April	85
Act now on your manpower problem.....	April	118
Plastics molding machinery order amended.....	April	120
Contract renegotiation speeded.....	April	120
Formaldehyde from Ethyl Alcohol.....	April	120
Cresylic Acid ceiling.....	April	120
Thermoplastic scrap ceiling.....	April	120
Thermoplastic order M-154 revised.....	April	120
Varnished cambrie at capacity production.....	April	120
Standard form to simplify CMP procedures.....	April	120
Seedlac allocated.....	May	120
Manpower commission bans job jumping.....	May	120
The machinery amendment.....	May	120
Vulcanized Fibre.....	May	120
Industry's three big hurdles.....	May	120
Renegotiated contracts.....	May	120
Second-hand plastics machinery prices.....	May	120
Acrylic resin scrap freed.....	May	120
Allocation of Polystyrene.....	May	120
Proposed price regulation for plastics.....	June	124
Urea-formaldehyde order.....	June	124
Industry advisory committee meeting.....	June	124
Essentiality of plastic goods.....	June	124
Film scrap gets new price ceiling.....	June	124
Vested foreign plastics patents available.....	June	124
How to obtain molds.....	June	124
Nitrocellulose allocations eliminated.....	June	126
Replacement schedules are a necessity.....	June	126
Restrictions of ethyl cellulose.....	June	126
Butyl alcohol and butyl acetate.....	June	126
Second-hand plastic machinery prices.....	June	126
Allocation procedure on isopropyl alcohol.....	June	126
Industrial alcohol stockpile.....	June	126
PD-1A applications handled by field offices.....	June	126
Thermoplastic order M-154 and L-238.....	June	126
Phenolic resin glues for marine use.....	June	126
Urea and Melamine Allocation Order M-331.....	July	110
Cellulose Acetate Orders.....	July	110
Tight situation in Plasticizer.....	July	110
Acetate esters of Butyl alcohol allocated.....	July	110
Turnbull leaves WPB.....	July	110
Plastics OPA Official promoted.....	July	112
New resins and plastics price regulations.....	July	112
Price orders affecting new chemicals.....	July	112
Navy's Plastics Section—an aid to industry.....	July	112
Plastics closures.....	July	114
Plastics conservation.....	July	114
Plastics for printing purposes.....	July	114
Ceiling prices for industrial cases.....	July	140
WPB forms identification simplified.....	July	140
Ethyl acetate and isopropyl acetate.....	July	140
Textile priority pattern affects laminators.....	July	140
Machinery situation for thermoplastics.....	August	118
Thin type vulcanized fibre released.....	August	118
Why there isn't enough vulcanized fibre.....	August	118
New staff heads in thermoplastics unit.....	August	120
Renegotiation proceedings accelerated.....	August	120
Chemical production material defined.....	August	120
Glycol ethers under allocation.....	August	120
Chemical tank car transportation savings.....	August	120
Aniline under allocation.....	August	120
Glycols allocation order.....	August	120
Use of enemy owned patents.....	August	120
Samuel S. Ullman joins OPA.....	August	120
Summer edition of Government.....	August	120
Cotton linters are essential.....	August	120

## WHEELS

Handwheels for destroyers.....	August	61
--------------------------------	--------	----

## WOOD (see also Plywood)

Industrial designs.....	December	62
Steering wheels of redwood.....	January	77
The postwar role of plastics.....	April	142

# INDEX OF AUTHORS

## AUTHORS

ANTENER, W. J. Machining acrylic plastics.....	October	72
AZAM, M. A. Ignition points of plastic materials.....	February	88

## B

BAILEY, ENSIGN W. R. Covering binocular bodies.....	October	50
BIGELOW, M. H. Advances in plastics during 1942—Urea-formaldehyde resins.....	January	92
BOOR, LADISLAV. Mar resistance of plastics.....	September	79
BORDNER, LEE T. Army foot tubs.....	June	82
BORDNER, LEE T. Foundation of production.....	September	68
BOYER, R. F. Advances in plastics during 1942—Styrene and polystyrene.....	January	97
BRADSHAW, R. R. Saran for injection molding.....	October	67
BRADSHAW, R. R. Electroplating masks.....	March	79
BRAGLIO, CHARLES. A new partnership is formed.....	April	53
BROOKS, J. FRED. Wartime molding in Australia.....	December	54
BROWNE, ARTHUR W. Molding vinyl copolymer dentures.....	August	71
BUNN, HOWARD. Advances in plastics during 1942—Vinyl resins.....	January	96

## C

CALDWELL, L. E. Properties of laminated phenolics.....	August	82
CARMAN, F. H. How plastics have gone to war.....	January	Insert
CARSWELL, T. S. Effects of continuous heat on phenolics.....	February	79
CHURCH, JAMES M. Thermoplastics for aircraft tools.....	May	74
COHEN, THEODORE A. Steps for prolonging instrument life.....	March	96
CRAMER, HOWARD I. Synthetic rubber.....	March	108
CROSLY, POWELL, III. Low pressure laminates for aircraft.....	January	54
CRUSE, W. T. Society of the Plastics Industry.....	May	124

## D

D'ALELIO, G. F. Low pressure laminating.....	September	45
DARLING, WILLIAM B. Laminated plastics from paper.....	February	112
DE BELL, GEORGE W. Hydraulics in transfer molding.....	June	88
DE BELL, JOHN M. Plasticizers.....	November	89

AUTHORS	Month	Page
DE BELL, JOHN M. Advances in plastics during 1942—Plasticizers.....	January	93
DEBING, L. M. Advances in plastics during 1942—Phenolic resins.....	January	91
DELMONTE, JOHN. Acid and alkali resistance of plastics.....	December	91
DELMONTE, JOHN. Ignition points of plastic materials.....	February	88
DELMONTE, JOHN. The postwar role of plastics.....	April	89
DIAL, WILLIAM R. Allyl-type cast resins and laminates.....	June	101
DICKEY, RAYMOND R. Cooperation—in industry today.....	November	44
DICKEY, RAYMOND R. Education for peacetime performance.....	May	62

## E

ELAM, D. W. New plasticizers for vinyl resins and cellulose esters.....	May	96
---	-----	----

## F

FALKENHAGEN, L. J. $69 + 247 = x - x$ .....	June	66
FEER, GEORGE. A British plan for furniture.....	April	70
FELL, C. L. LT. Aircraft applications of plastics.....	July	89
FIELD, PHILIP M. Basic physical properties of laminates.....	August	91
FINDLEY, WILLIAM N. Mechanical tests of cellulose acetate.....	March	99
FREDERICK, D. S. Forming and repairing acrylic plastics.....	December	86
FREDERICK, D. S. Safety devices for aviation plants.....	February	48
FULLER, MAJOR F. B. Engineering properties of plastics.....	June	95

## G

GLASIER, R. C. The economics of automatic molding.....	November	91
GOLDMAN, M. A. Plastic-bonded cotton fiber.....	May	100
GRIFFITH, H. E. Fabrication of polystyrene.....	November	79
GROOS, CHRIS J. Fountain fixtures in the front lines.....	December	58

## H

HANSON, N. D. Low-pressure molding of laminates.....	August	57
HARMON, PAUL H., Ph.D., M.D. Methacrylate resins in surgery.....	September	56
HASLANGER, R. U. Effects of continuous heat on phenolics.....	February	79
HASLANGER, R. U. Phenolic resin-pulp preforms.....	July	76
HAUGHT, J. W. Advances in plastics during 1942—Cellulose esters.....	January	94
HOLMES, CARL E. Grinding and machining cast resins.....	September	76
HOLMES, CARL E. Defense training in plastics.....	December	120

## J

JACOBSON, ROBERT G. Keyboard for color.....	February	57
---	----------	----

## K

KATZEN, RAPHAEL. Plastics from hydrolyzed lignocellulose.....	October	91
KLINE, G. M. Advances in plastics during 1942—General review.....	January	85
KOON, ARCHIE W. Calculation of a modulus of impact.....	September	88
KUETTEL, G. M. Improved heat resistant methacrylate.....	June	98
KUETTEL, G. M. Predrying molding powers.....	May	86

## L

LAZAN, B. J. Behavior of plastics under vibrations.....	November	83
LARSON, W. S. Producing trench mortar shell fuzes.....	January	71
LEEG, K. J. Liquid phenolic resins for tooling.....	July	65
LEWIS, HARRY F. Plastics from redwoods.....	July	91
LOUGEE, E. F. Thermoelastic C-stage laminates.....	June	69
LOWRY, R. D. Saran for injection molding.....	October	87
LOWRY, R. D. Advances in plastics during 1942—Vinylidene chloride polymers.....	January	128
LUNSFORD, JESSE B. Insulation aboard U. S. Navy vessels.....	October	45
LUTH, HAROLD J. Paper laminates for molding—A game that founded an industry.....	July	71

## M

MACGILL, K. T. Laminated phenolic bearings.....	November	76
McCANN, HIRAM. Canada's plastics industry in wartime.....	March	76
McELHINNEY, T. R. Bagasse molding compounds.....	November	64
MACHT, M. L. Predrying molding powers.....	May	86
MANTELL, C. L. Protecting textiles from silverfish.....	February	51
MAXFIELD, RICHARD F. Standardized finishing fixtures.....	February	73
MAXWELL, MARK. Design suggestions for molded phenolics.....	June	90
MAY R. Protecting textiles from silverfish.....	February	51

AUTHORS	Month	Page
MEHARG, V. E. Heatronic molding.....	March	87
MEILER, JOHN G. Lignin-enriched filler.....	September	64
MILLIKEN, M. C. Plastics prognosis.....	May	82
MOHOLY-NAGY, L. Modern designs from Chicago.....	December	62
MORGAN, C. P. Molding with non-critical materials.....	November	80
MORSE, A. R. Injection molded thermosetting parts.....	November	41
MOSHER, R. H. Phenolic resin-pulp preforms.....	July	76
MULLER-MUNK, PETER. The future of product design.....	June	76
MYERS, C. S. Impact strength of plastic sheet.....	October	81

## N

NASON, HOWARD K. Impact testing of plastics—energy considerations.....	July	85
NEBESAR, ROBERT J. Molded plastic-plywood in aircraft.....	February	83
NELSON, JOHN D. Low pressure laminating.....	September	45
NORRIS, C. A. Transfer molding of phenolic material.....	April	73
NORTON, ARTHUR J. The function of postwar research.....	July	70

## O

OBERG, T. P. Mechanical properties of plastics at normal and subnormal temperatures.....	April	87
OLSEN, GERNER A. Plastic-bonded cotton fiber.....	May	100
OTHMER, DONALD. Plastics from hydrolyzed lignocellulose.....	October	91

## P

PAGE, R. L. New plasticizers for vinyl resins and cellulose esters.....	May	95
PARSONS, W. E. Down-East handwheels for destroyers.....	August	61
PEARCE, W. T. Advances in plastics during 1942—Surface coatings.....	January	88
PECHUKAS, ALPHONSE. Allyl-type cast resins and laminates.....	June	101
PERRY, THOMAS D. Scarfed joints in plywood.....	September	74
PERRY, THOMAS D. Molding curved plastic-plywood.....	August	73
PETHO, J. A. Design fundamentals for phenolics.....	December	77
PIGMAN, G. L. Impact-resistant aircraft windshield shields.....	March	107
PLACE, S. W. Advances in plastics during 1942—Laminates.....	January	90
PREUSSER, H. M. New plasticizers for vinyl resins and cellulose esters.....	May	98
PRICE, J. R. Elastic plastics for war production.....	December	45

## R

RAHM, W. E. Predrying molding powers.....	May	86
REYNOLDS, A. O. Plastics from hydrolyzed lignocellulose.....	October	91
RICHTER, H. W. Priority-free pipe.....	September	48
ROZEMA, C. E. Aircraft from West Coast timberlands.....	January	68

## S

SAILE, KATHRYN. Seeing is believing.....	October	58
SCHWARTZ, R. T. Mechanical properties of plastics at normal and subnormal temperatures.....	April	87
SHINN, D. A. Mechanical properties of plastics at normal and subnormal temperatures.....	April	87
SMITH, WILLIAM B. Labor standards in the plastics industry.....	April	56
STANLEY, F. B. Advances in plastics during 1942—Molds and molding.....	January	89
STRAIN, FRANKLIN. Allyl-type cast resins and laminates.....	June	101
STRAKA, C. J. Chemical resistance of laminates.....	July	80

## T

TELFAIR, D. Effects of continuous heat and phenolics.....	February	79
TELFAIR, D. Impact testing of plastics—Energy considerations.....	July	85
TRIMBACH, C. G. Boxes for Bullets.....	May	59

## W

WEIL, M. A. Old light in the new dark.....	October	64
WHITE, WM. M. Tubing and tube fittings.....	August	65
WILEY, F. E. Polystyrene for wartime electronics.....	August	80
WILLIAMSON, E. A. Printing with thermoplastic plates.....	October	59
WILSON, F. P. Low-pressure molding of laminates.....	August	57
WITTY, W. M. Molding with radio frequency.....	May	83
WOLFE, E. L. Machining laminated phenolics.....	May	92

## Y

YOUNG, ARTHUR E. Advances in plastics during 1942—Ethyl cellulose.....	January	95
--	---------	----



